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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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7590 10/20/2003		EXAMINER			
James V. Costigan, Esq. HEDMAN & COSTIGAN, P.C.			COLETTA, LORI L		
Suite 2003			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.   Applicatists   Application No.   Applicatists   Applicatists   Application No.   Applicatists   Application No.   Applicatists   Application No.   Applicati				$\leq M$				
Examiner Lori Lodita		Application No.	Applicant(s)					
Lori L Coletta	<b>\</b>	10/081,752	VISMARA ET AL.					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address—Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the procedure of 3°CPR 1.136(s). In so event, however, may a reply test timely filled  Extensions of time may be available under the procedure of 3°CPR 1.136(s). In so event, however, may a reply test timely filled  Extensions of time may be available under the procedure of 3°CPR 1.136(s). In so event, however, may a reply test timely filled  If the print of terre ply aspecified shows it less than theirty (30) days, a very villable to extend the print of the communication of this communication.  If the print of the place of the communication of the print of t	Office Action Summary	Examiner	Art Unit					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION.  - Extractions of time may be available used: the provisions of 37 CFR 1.75(b), in no event, however, may a reply be timely filled  - Extractions of time may be available used: the provisions of 37 CFR 1.75(b), in no event, however, may a reply be timely filled  - Extractions of time may be available used: the provision of 37 CFR 1.75(b), in no event, however, may a reply be timely filled  - Extraction of the provision of the mailing date of this communication, event if limbly filled, may reduce any conscious term adjustment. See 37 CFR 1.704(b).  - Status  1)  Responsive to communication(s) filled on 29 September 2003  2a)  This action is FINAL. 2b)  This action is non-final.  3)  Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 c.D. 11, 453 O.G. 213.  Disposition of Claims  4)  Claim(s) 1-10 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-10 is/are rejected.  7)  Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)  The specification is objected to by the Examiner.  10)  The drawing(s) filled on is/are: a) cecepted or b) objected to by the Examiner.  Application Papers  9)  The drawing(s) filled on is/are: a) objected to by the Examiner.  11) The proposed drawing correction filled on 27 December 2002 is: a) approved b) disapproved by the Examiner.  11 approved, corrected drawings are required in reply to this Office action.  12 The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. § 119 and 120  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d)								
THE MAILING DATE OF THIS COMMUNICATION.  - Extencions of time may be available under the provisions of 37 CPR 1.31(s). In no event, however, may a reply be timely filed after SX (5) MODITHS from the mailing date of this communication.  - Extencions of time may be available under the provision of 37 CPR 1.31(s). In no event, however, may a reply be timely filed after SX (5) MODITHS from the mailing date of this communication.  - Fallure to reply white the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. C. § 133).  - Fallure to reply white the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. C. § 133).  - Fallure be reply white the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. C. § 133).  - Fallure be reply white the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. C. § 133).  - Fallure be reply white the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. C. § 133).  - Fallure be reply white the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. C. § 130).  - Fallure become the reply will be set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S. C. § 130).  - This action is FINAL.  - 2b) METHOD The Pallure become the replication.  - Application is FINAL.  - 2b) This action is final the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  - Claim(s) 1-10 is/are pending in the application.  - 4a) Of the above claim(s) in the application and the period of the priodity documents from consideration.  - 5b) Claim(s) 1-10 is/are allowed.  - 5b) Claim(s) 1-10 is/are allowed.  - 5b) Claim(s) 1-10 is/are allowed.  - 5c) Claim(s) 1-10 is/are allowed.  - 5c) Claim(s) 1-10 i								
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#### **DETAILED ACTION**

# Claim Objections

1. Claims 1-10 are objected to because of the following informalities:

Regarding claim 1, "said first absorber" (line 5) needs to be changed to
--said laterally-placed first absorber element--. "Said laterally-placed absorber element" (line 7)
needs to be changed to --said laterally-placed first absorber element--.

Regarding claim 2, "collapseof" (line 3) needs to be changed to --collapse of--.

Regarding claim 6, "cross member (17A) is made of metal or plastic flat" (line 2) is awkward.

Regarding claim 7, "cross member (17A) is flat is made of metal or plastic and is flat" (line 2) is awkward.

Regarding claim 8, "said first absorbers" (line 5) needs to be changed to --said first absorber elements--.

Appropriate correction is required.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 8-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Rich et al. 5,219,197.

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Regarding claim 8, Rich et al. '197 discloses a protective structure for vehicles, characterized in that is comprises a shaped front cross member (20) made of metal or plastic having two lateral ends comprising a unitary fillable internal chamber, wherein said front cross member is connected to lateral side members, having at least one underlying laterally-placed first absorber element (40) positioned near the lateral ends of said front cross member, said first absorber elements connected externally after the cross member in the bumper side of the vehicle, and an additional absorber system (30) interposed between said laterally-placed absorber elements in Figure 2.

Regarding claims 9 and 10, Rich et al. '197 discloses the protective structure for vehicles. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terada et al. 5,078,439 in view of Glance 6,443,513.

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Regarding claim 1, Terada et al. '439 discloses protective structure for vehicles, characterized in that it comprises a substantially linear front cross member (13) having tow lateral ends comprising a unitary fillable chamber (20, 22, 24 and 23 or 22, 21, 23 and 24), wherein said front cross member (13) is connected to lateral side members (14), and having at least one underlying laterally-placed first absorber element positioned near each lateral end of said front cross member, said first absorber element being connected externally after the cross member on the bumper side of the vehicle in Figures 1 and 2.

However, Terada et al. '439 does not show having at least one underlying laterally-placed first absorber element being positioned near each lateral end of said front cross member, said first absorber element being connected externally after the cross member on the bumper side of the vehicle, and having an additional absorber system interposed between said lateral-placed first absorber element.

Glance '513 teaches a bumper beam (53) mounted to vehicle rails (55) having at least one underlying laterally-placed first absorber element (10) being positioned near each lateral end of said front cross member (53), said first absorber element being connected externally after the cross member on the bumper side of the vehicle, and having an additional absorber system (10) interposed between said lateral-placed first absorber element in Figures 18 and 19.

Regarding claim 1, it would have been obvious to one having ordinary skill in the art at the time the invention was made to make the protective structure for vehicles of Terada et al. '439 with at least one underlying laterally-placed first absorber element being positioned near each lateral end of said front cross member, said first absorber element being connected externally after the cross member on the bumper side of the vehicle, and having an additional

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absorber system interposed between said lateral-placed first absorber element, as taught by Glance '513, in order to provide an improved, lightweight, inexpensive energy absorber with a low ration of weight to crush force output.

Regarding claim 3, Terada et al. '439, as modified, discloses the protective structure for vehicles, characterized in that said cross member (13) had a substantially straight geometrical structure which is fitted with curved bumper conforming in shape to said underlying laterally-placed first absorber elements and said additional absorber system wherein said absorber elements and said absorber system are interposed between said bumper and said cross member.

Regarding claim 4, Terada et al. '439, as modified, discloses the protective structure for vehicles, characterized in that said underlying laterally-placed first absorber element and said second absorber element are made of materials which deform under pressure of 5-30N/mm<sup>2</sup> which corresponds to a crushing of 50%.

Regarding claim 5, Terada et al. '439, as modified, discloses the protective structure for vehicles, characterized in that said first absorber element and said second absorber element comprising absorbing materials selected from the group consisting of extruded thermoplastic honeycomb, honeycomb, made of aluminum, polyurethane foam, formed polypropylene, rigid polyurethane, semi-rigid polyurethane and extrude polyurethane.

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Regarding claim 6, Tereda et al. '439, as modified, discloses the protective structure for vehicles, characterized in that said cross member is made of metal or plastic flat. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production.

Regarding claim 7, Tereda et al. '439, as modified, discloses the protective structure for vehicles, characterized in that said cross member is flat and is made of metal or plastic. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production.

6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Terada et al. 5,078,439 in view of Glance 6,443,513 as applied to claim 1 above, and further in view of Glance 2002/0060462.

Regarding claim 2, Terada et al. '439, as modified, discloses the protective structure for vehicles.

However, Terada et al. '439 does not show inside said cross member, at least one second absorber element is present, which increases the force which will cause the collapse of the cross member and the energy absorber by said cross member and, simultaneously, limits the overall dimensions of the entire structure.

Glance '462 teaches some beams are reinforced with ribs, or an internal bulkhead or other stiffening reinforcement [0003].

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Regarding claim 2, it would have been obvious to one having ordinary skill in the art at

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the time the invention was made to make the protective structure for the vehicle of Terada et al.

'439, as modified, with an absorber element inside the cross member, as taught by Glance '462,

in order to provide internal bumper beam reinforcement for lower speed (5 mph) impacts and

provide controlled beam crush at higher speed impacts.

Response to Arguments

7. Applicant's arguments with respect to claims 1-10 have been considered but are moot in

view of the new ground(s) of rejection.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lori L. Coletta whose telephone number is (703) 306-4614.

The examiner can normally be reached on Monday-Friday 6:30am-3:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Glenn Dayoan can be reached on (703) 308-3102. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1134.

Lori L. Coletta

Examiner

Art Unit 3612

Lori L. Coletta October 15, 2003

Lou L Colette

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